PTO-1390 (Rev. 07-2005) Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TR	ANSMITTAL LETTER TO TH	ATTORNEY'S DOCKET NUMBER  T3653-8972US01						
DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371			U.S. APPLICATION NO. (If known, see 37 CFR 1.5)					
	CERNING A SUBMISSION U	PRIORITY DATE CLAIMED						
PCT/US	05/04015	2/11/2004						
TITLE OF INVENTION  COMMUNICATION CHANNEL CAPACITY ESTIMATION								
APPLICANT(S) FOR DO/EO/US ZHENG, LING LUND, MICHAEL								
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:								
1. 🛛	This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.							
2. 🗌	This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.							
з. 🗌	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.							
4. 🔲	The US has been elected (Article 31).							
5.	A copy of the International Application as filed (35 U.S.C. 371(c)(2))							
	a. is attached hereto (required only if r	not communicated by the Internationa	l Bureau).					
	b.  has been communicated by the Inte	rnational Bureau.						
	c. X is not required, as the application was filed in the United States Receiving Office(RO/US)							
6. 🗌	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).							
	a. is attached hereto.							
_	b. has been previously submitted under 35 U.S.C. 154(d)(4).							
7.	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))							
	a. are attached hereto (required only if not communicated by the International Bureau).							
	b. have been communicated by the International Bureau.							
	c. In have not been made; however, the time limit for making such amendments has NOT expired.							
	d. Li have not been made and will not be made.							
8. 🔲	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
9. 🖂	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).							
10. 📙	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).							
Items	11 to 20 below concern document(s) or in	formation included:						
11. 🛛	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.							
12. 🗌	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.							
13. 🔲	A preliminary amendment.							
14. 🛚	An Application Data Sheet under 37 CFR 1.76.							
15. 🗌	A substitute specification.							
16. 🗌	A power of attorney and/or change of address letter.							
17. 🔲	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.							
18. 🗌	A second copy of the published International Application under 35 U.S.C. 154(d)(4).							
19. 🔲	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).							

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (If known, see 37 CFR 1.5)			INTERNATIONAL APPLICATION NO. PCT/US05/04015			ATTORNEY'S DOCKET NUMBER T3653-8972US01	
20. Other items or	r information:		<u>.</u>				
	fees have been sub	CALCULATIONS	PTO USE ONLY				
21. Basic national	l fee (37 CFR 1.492	(a))		•••••	\$300	\$ 300	
22. Examination for	ee (37 CFR 1.492(d	))				\$ 200	
If the written opinion pre IPEA/US indic All other situations	cates all claims satis						
If the written opinion pre IPEA/US indic Search fee (37 CFR 1.44 International Search Rep	cates all claims satis (5(a)(2)) has been posearching Authority bort prepared by an d to the US by the II	\$ 100					
	TOTAL OF		\$ 600				
Additional fee for s listing in compliance (37 CFR 1.492(j)). The fee is \$250 for	e with 37 CFR 1.82						
Total Sheets	Extra sheets		each additional 50 or fract ound <b>up</b> to a whole numbe		RATE		
- 100 =	/50 =				X \$250	\$	
Surcharge of \$130.00 for the date of commencement			examination fee, or the or 1.492(h)).	ath or o	declaration after	\$	
CLAIMS	NUMBER FILED		NUMBER EXTRA	XTRA RATE		\$	
Total Claims		<b>19</b> - 20 =	0		× \$50	\$	
Independent Claims		7 - 3=	4		x \$200	\$ 800	
MULTIPLE DEPENDEN	IT CLAIM(S) (if appl	icable)			+ \$360	\$	
		\$ 800					
Applicant claims sm	nall entity status. Se						
SUBTOTAL =						\$ 1400	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).						\$	
TOTAL NATIONAL FEE =						\$ 1400	
Fee for recording the end an appropriate cover she		\$					
TOTAL FEES ENCLOSED =						\$ 1400	
						Amount to be refunded:	\$
						Amount to be charged:	\$1400

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a. 📙	A check in the amount of \$ to cover the above fees is enclosed.						
b. 🛚	Please charge my Deposit Account No. <b>50-1165</b> in the amount of <u>\$</u> to cover the above fees.  A duplicate copy of this sheet is enclosed.						
c. 🔯	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <b>50-1165.</b> A duplicate copy of this sheet is enclosed.						
d. 🗌	Fees are to be charged to a credit card. WARNING: Information on this form may become public, Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.							
SEND ALL CORRESPONDENCE TO:							
1751 Pi Suite 5	a Stockbridge P.C. innacle Drive 00 n, VA 22102-3833	SIGNATURE  Jason H. Vick  NAME  45,285  REGISTRATION NUMBER  June 28, 2006  DATE					